## **PCT**

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

according to the Patent Cooperation Treaty.	Name of receiving Off	ice and "PCT Interr	national Application"	
·	Applicant's or agent's (if desired) (12 charac	s file reference Biters maximum) Bi	H-003-PCT	
Box No. I TITLE OF INVENTION			<del></del>	
HELICASE-DEPENDENT AMPLIFICATION	OF CIRCULAR N	UCLEIC ACI	DS ·	
Box No. II APPLICANT This pe	rson is also inventor			
Name and address: (Family name followed by given name; for a legal The addressmust include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of res	Telephone No. 978-927-5054			
BIOHELIX CORPORATION	Facsimile No.			
32 Tozer Road		978-927-1705	<del></del>	
Beverly, MA 01915 US		Teleprinter No.		
		Applicant's regist	ration No. with the Office	
State (that is, country) of nationality: US	State (that is, country US	of residence:		
This person is applicant for the purposes of:  all designated States  X all designated the Unite	nated States except d States of America	the United States of America only	the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FU	RTHER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of resi KONG, Huimin 5 Conrad Circle  Wenham, MA 01984  US		inventor is marked	and inventor only (If this check-box d, do not fill in below.) ration No. with the Office	
State (that is, country) of nationality: US	State (that is, country US	of residence:		
This person is applicant all designated all design the Unite	ated States except d States of America	the United States of America only	the States indicated in the Supplemental Box	
X Further applicants and/or (further) inventors are indicate	ed on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATI	VE; OR ADDRESS FOR	CORRESPONDE	NCE	
The person identified below is hereby/has been appointed to a of the applicant(s) before the competent International Authorit	ies as:	agent	common representative	
Name and address: (Family name followed by given name; for a legal The address must include postal code and name o	entity, full official designation. I country.)	Telephone No. 978-927-5054		
STRIMPEL, Harriet M.		Facsimile No.		
New England Biolabs, Inc. 32 Tozer Road		978-927-1705		
Beverly, MA 01915		Teleprinter No.		
US				
		Agent's registration	on No. with the Office	
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.				

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should not	be included in the rea	quest.		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence XU, Yan 24 Tally Ho Drive Hamilton, MA 01982	This person is:  applicant only  X applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State Abotic and A. C. of V.				
State (that is, country) of nationality: CN	State (that is, country US	v) of residence:		
This person is applicant all designated all designated	States except	the United States the States indicated in		
the United Sta	ates of America	of America only the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is no State of residence if no State of residence is no Sta	a malalara a mai di mata a di	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country	y) of residence:		
This person is applicant for the purposes of:  all designated the United States  all designated the United States		the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is the applicant of the state of residence if no State of residence is the applicant of the state of the s	r, full official designation. address indicated in this e is indicated below)	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)	) of residence:		
This person is applicant all designated all designated				
for the purposes of: States the United Sta	tes of America	the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence are signed and the applicant of the state		This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)	of residence:		
This person is applicant for the purposes of:  all designated the United States  all designated the United States		the United States of America only the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Sheet No. ...3...

Box No. V DESIGNAT	TIONS					
The filing of this request con filing date, for the grant of ev	stitutes under Rule 4.9(a), the very kind of protection available	ne designation of all Cont e and, where applicable, f	racting States bound by to for the grant of both region	the PCT on the international onal and national patents.		
However,			•			
l	signated for any kind of nation	=				
	is not designated for any kind	<del>-</del>				
•	is not designated for any kin	=				
ine national tare, of an eartie	be used to exclude (irrevocably or national application from w in these and certain other Stat	hich priority is claimed ?	ned in order to avoid the See the Notes to Box No.	ceasing of the effect, under V as to the consequences of		
Box No. VI PRIORITY	CLAIM			· · · · · · · · · · · · · · · · · · ·		
The priority of the following	earlier application(s) is hereby	/ claimed:				
Filing date of earlier application	Number of earlier application	v	Where earlier application is:			
(day/month/year)	or application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office		
item (1) 25 March 2004 (25.03.2004)	60/556,297	us				
item (2)						
	·			·		
item (3)						
Further priority claims a	ro indicated in the S	•				
	re indicated in the Supplement					
the earlier application was file above as:	sted to prepare and transmit to ed with the Office which for the	the International Bureau a e purposes of this internat	a certified copy of the ear	rlier application(s) (only if receiving Office) identified		
all items X ite		item (3)				
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):						
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Box No. VII INTERNA	TIONAL SEARCHING AUT	HORITY				
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):						
**************	ISA /US					
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):						
Date (day/month/year)  Number  Country (or regional Office)						
Date (day/month/year)	lier search; reference to that	search (if an earlier sear	ch has been carried out			
Box No. VIII DECLAR	rlier search; reference to that ority): Numbe	s search (if an earlier sear r Count	rch has been carried out ry (or regional Office)			
Box No. VIII DECLAR.  The following declarations a	rlier search; reference to that ority): Numbe	search (if an earlier sear	rch has been carried out ry (or regional Office)			
Box No. VIII DECLAR.  The following declarations a	re contained in Boyes Nos. VI	search (if an earlier sear Count II (i) to (v) (mark the appl ber of each type of declar	rch has been carried out ry (or regional Office)	by or requested from the  Number of		
Box No. VIII DECLAR.  The following declarations a check-boxes below and indica	rlier search; reference to that ority):  Numbe  ATIONS  The contained in Boxes Nos. VI the in the right column the num	c search (if an earlier sear c Count II (i) to (v) (mark the appl ber of each type of declar of the inventor t's entitlement, as at the in	rch has been carried out ty (or regional Office) licable ation):	by or requested from the  Number of		
Box No. VIII DECLAR  The following declarations a check-boxes below and indicate  Box No. VIII (i)	ATIONS  re contained in Boxes Nos. VI the in the right column the num  Declaration as to the identity of the process of the pr	Count  II (i) to (v) (mark the appliance of each type of declaration of the inventor the country of t	rch has been carried out ry (or regional Office) licable ation):	by or requested from the  Number of		
Box No. VIII DECLAR  The following declarations a check-boxes below and indicated and	ATIONS  re contained in Boxes Nos. VI the in the right column the num  Declaration as to the identity of Declaration as to the applicant date, to apply for and be grant.  Declaration as to the applicant declaration as to the applicant date, to apply for and be grant.	Count  II (i) to (v) (mark the application  of the inventor  t's entitlement, as at the in ed a patent  t's entitlement, as at the in ee earlier application	rch has been carried out ry (or regional Office) licable ation): ternational filing ternational filing	by or requested from the  Number of		

Sheet No. ...4...

Box No. IX CHECK LIST; LANGUAGE OF FILING				
This international application contains:  (a) In paper form, the following number of sheets: request (including declaration sheets): 4 description (excluding sequence listings and/or tables related thereto): 40 claims: 5 abstract: 1 drawings: 9 Sub-total number of sheets: 59 sequence listings: 2 tables related thereto: (for both, actual number of sheets if filed in paper form.	This international application is accompanied by the following item(s) (mark the applicable check-boxes belowand indicate in right column the number of each item):  1.  fee calculation sheet 2.  original separate power of attorney 3.  original general power of attorney 4.  copy of general power of attorney; reference number, if any: 5.  statement explaining lack of signature 6.  priority document(s) identified in Box No. VI as item(s): 7.  translation of international application into (language): 8.  separate indications concerning deposited microorganism or other biological material	Number of items : 1 : : 2 : : : : : : : : : : : : : : : : :		
whether or not also filed in computer readable form; see (c) below)  Total number of sheets : 61  (b) only in computer readable form (Section 801(a)(i))	<ul> <li>9.  sequence listings in computer readable form (indicate type and number of carriers)</li> <li>(i)  copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)</li> <li>(ii)  (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter</li> </ul>	:		
(i) sequence listings (ii) tables related thereto (c) also in computer readable form (Section 801(a)(ii)) (i) sequence listings (ii) tables related thereto Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the sequence listings:	<ul> <li>(iii)  together with relevant statement as to the identity of the copy of copies with the sequence listings mentioned in left column</li> <li>10.  tables in computer readable form related to sequence listings (indicate type and number of carriers)</li> <li>(i)  copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application)</li> <li>(ii)  (only where check-box (b)(ii) or (c)(ii) is marked in left column additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)</li> </ul>	: I : ) :		
Lables related thereto:  (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)  Figure of the drawings which	(iii) together with relevant statement as to the identity of the copy of copies with the tables mentioned in left column  11.   other (specify): \$2,934 check; return postcard  Language of filing of the	:		
should accompany the abstract: 1b  Box No. X SIGNATURE OF APPLICAN	international application: English T, AGENT OR COMMON REPRESENTATIVE	<del></del>		
Harriet M. Strimpel, D.Phil., Agent				
Date of actual receipt of the purported international application:     Corrected date of actual receipt due to later be timely received.	nt [	ings: ived:		
timely received papers or drawings completing the purported international application:  4. Date of timely receipt of the required corrections under PCT Article 11(2):		received:		
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid			
Date of receipt of the record copy by the International Bureau:				